

# Pharmacogenetic medication and gene panels

Drug	Example Trade Names	Gene	Comprehensive Panel	Cardiovascular Subpanel	Psychiatry Subpanel	Pain Subpanel	Epilepsy Subpanel	Oncology Subpanel	Pediatric Subpanel
Allopurinol	Zyloprim, Liopurin, Alopurin	ABCG2	✓			✓			
Amitriptyline	Elavil	CYP2D6, CYP2C19	✓		✓	✓	✓		✓
Amoxapine	Asendin	CYP2D6	✓		✓		✓		
Amphetamines	Adderall, Evekeo	CYP2D6	✓		✓		✓		✓
Aripiprazole	Abilify, Aristada	CYP2D6	✓		✓		✓		✓
Atazanavir	Reyataz, Evotaz	UGT1A1	✓						✓
Atomoxetine	Strattera	CYP2D6	✓		✓		✓		✓
Atorvastatin	Lipitor	CYP3A4, SLCO1B1	✓	✓					
Avatrombopag	Doptelet	F2, F5	✓	✓					
Azathioprine	Azasan, Imuran	TPMT, NUDT15	✓					✓	✓
Azilsartan	Edarbi, Edarbyclor	CYP2C9	✓	✓					
Belinostat	Beleodaq	UGT1A1	✓					✓	
Brexpiprazole	Rexulti	CYP2D6	✓		✓		✓		
Brivaracetam	Briviact	CYP2C19	✓		✓		✓		
Bupropion	Wellbutrin, Zyban, Aplenzin, Contrave	CYP2B6	✓		✓				
Capecitabine	Xeloda	DPYD	✓					✓	✓
Carisoprodol	Soma	CYP2C19	✓			✓	✓		
Carvedilol	Coreg	CYP2D6	✓	✓					
Celecoxib	Celebrex	CYP2C9	✓			✓	✓		✓
Cevimeline	Evoxac	CYP2D6	✓						
Chloroquine	Aralen	G6PD	✓						
Chlorpromazine	Thorazine	CYP2D6	✓		✓				
Chlorpropamide	Diabenese	CYP2C9	✓						
Citalopram	Celexa	CYP2C19, GRIK4	✓		✓		✓		✓
Clobazam	Onfi	CYP2C19	✓		✓		✓		
Clomipramine	Anafranil	CYP2D6, CYP2C19	✓		✓	✓	✓		✓
Clonidine	Kapvay, Catapres	CYP2D6	✓	✓	✓		✓		✓
Clopidogrel	Plavix	CYP2C19	✓	✓					✓
Clozapine	Clozaril	CYP2D6, CYP1A2, HTR2A, HTR2C	✓		✓				
Codeine	Codeine, Fioricet with Codeine	CYP2D6	✓			✓	✓		✓
Dabrafenib	Tafinlar	G6PD	✓					✓	
Dapsone	Aczone	G6PD	✓						
Darifenacin	Enablex	CYP2D6	✓						
Desipramine	Norpramin	CYP2D6	✓		✓	✓	✓		✓

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Desvenlafaxine	Pristiq	CYP2D6	✓		✓		✓		
Deutetrabenazine	Austedo	CYP2D6	✓		✓				
Dexlansoprazole	Dexilant, Kapidex	CYP2C19	✓			✓			
Dextroamphetamine	Dexedrine	CYP2D6	✓		✓		✓		✓
Dextromethorphan-Quinidine	Nuedexta	CYP2D6	✓		✓				
Dexmethylphenidate	Focalin	ADRA2A, COMT	✓		✓				✓
Diazepam	Valium	CYP2C19	✓		✓		✓		
Diclofenac	Voltaren	CYP2C9	✓			✓	✓		
Dihydrocodeine	Synalgos-DC	CYP2D6	✓			✓			
Dolasetron	Anzemet	CYP2D6	✓						
Donepezil	Aricept	CYP2D6	✓		✓				
Doxepin	Silenor	CYP2D6, CYP2C19	✓		✓		✓		✓
Dronabinol	Marinol	CYP2C9	✓						
Duloxetine	Cymbalta	CYP2D6	✓		✓	✓	✓		
Efavirenz	Sustiva	CYP2B6	✓						
Eliglustat	Cerdelga	CYP2D6	✓						✓
Eltrombopag	Promacta	F5	✓	✓					
Erlotinib	Tarceva	UGT1A1	✓					✓	
Escitalopram	Lexapro	CYP2C19	✓		✓		✓		✓
Esomeprazole	Nexium	CYP2C19	✓			✓			
Fentanyl	Actiq	OPRM1	✓			✓	✓		
Fesoterodine	Toviaz	CYP2D6	✓						
Flecainide	Tambocor	CYP2D6	✓	✓					
Flibanserin	Addyi	CYP2C19	✓		✓				
Fluorouracil	Adrucil, Carac, Efudex	DPYD	✓					✓	✓
Fluoxetine	Prozac, Sarafem	CYP2D6	✓		✓		✓		✓
Fluphenazine	Prolixin	CYP2D6	✓		✓				
Flurbiprofen	Ansaid	CYP2C9	✓			✓	✓		
Fluvastatin	Lescol	CYP2C9, ABCG2, SLCO1B1	✓	✓					
Fluvoxamine	Luvox	CYP2D6	✓		✓		✓		✓
Fosphenytoin	Cerebyx	CYP2C9	✓		✓		✓		✓
Galantamine	Razadyne	CYP2D6	✓		✓				
Gefitinib	Iressa	CYP2D6	✓					✓	
Glimepiride	Amaryl	CYP2C9	✓						
Glipizide	Glucotrol	CYP2C9	✓						
Glyburide	Micronase	CYP2C9	✓						
Granisetron	Sancuso, Sustol	ABCB1	✓						
Haloperidol	Haldol	CYP2D6	✓		✓				

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Hydrocodone	Vicodin	CYP2D6, OPRM1	☑			☑	☑		☑
Ibuprofen	Advil, Motrin	CYP2C9	☑			☑	☑		
lloperidone	Fanapt	CYP2D6	☑		☑				☑
Imipramine	Tofranil	CYP2D6, CYP2C19	☑		☑	☑	☑		☑
Indomethacin	Indocin	CYP2C9	☑			☑	☑		
Irbesartan	Avapro	CYP2C9	☑	☑					
Irinotecan	Camptosar	UGT1A1	☑					☑	
Irinotecan liposomal	Onivyde	UGT1A1	☑					☑	
Lacosamide	Vimpat	CYP2C19	☑			☑	☑		
Lansoprazole	Prevacid	CYP2C19	☑			☑			
Leflunomide	Arava	CYP2C19	☑						
Lesinurad	Zurampic	CYP2C9	☑			☑			
Lisdexamfetamine	Vyvanse	CYP2D6	☑		☑				☑
Lofexidine	Lucemyra	CYP2D6	☑		☑				
Lorazepam	Ativan	UGT2B15	☑		☑		☑		
Losartan	Cozaar, Hyzaar	CYP2C9	☑	☑					
Lovastatin	Mevacor, Altoprev, Advicor	SLCO1B1	☑	☑					
Lusutrombopag	Mulpleta	F2, F5	☑	☑					
Maprotiline	Ludiomil	CYP2D6	☑		☑		☑		
Meloxicam	Mobic	CYP2C9	☑			☑	☑		
Mercaptopurine	Purinethol, Purixan	TPMT, NUDT15	☑					☑	☑
Methadone	Dolophine	CYP2B6	☑		☑	☑	☑		
Methylene-blue	Uribel, Urogesic-Blue, Azuphen MB, UTA, Proveyblue	G6PD	☑						
Methylphenidate	Ritalin	ADRA2A, COMT	☑		☑				☑
Metoclopramide	Reglan	CYP2D6	☑			☑			
Metoprolol	Lopressor	CYP2D6	☑	☑					
Mexiletine	Mexitil	CYP2D6	☑	☑					
Mirabegron	Myrbetriq	CYP2D6	☑						
Mirtazapine	Remeron	CYP2D6	☑		☑		☑		
Morphine	MS Contin	COMT, OPRM1	☑			☑	☑		
Nateglinide	Starlix	CYP2C9	☑						
Nebivolol	Bystolic	CYP2D6	☑	☑					
Netupitant-Palonosetron	Akynzeo	CYP2D6	☑						
Nilotinib	Tasigna	UGT1A1	☑					☑	
Nitrofurantoin	Furadantin, Macrobid, Macrochantin	G6PD	☑						

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Nortriptyline	Pamelor	CYP2D6	☑		☑	☑	☑		☑
Olanzapine	Zyprexa	CYP2D6, CYP1A2, HTR2C	☑		☑				
Omeprazole	Prilosec	CYP2C19	☑			☑			
Ondansetron	Zofran, Zuplenz	CYP2D6	☑						☑
Oxazepam	Serax	UGT2B15	☑		☑		☑		
Oxycodone	Percocet, Oxycontin	CYP2D6	☑			☑	☑		☑
Paclitaxel	Taxol, Abraxane	CYP2C8	☑					☑	
Paliperidone	Invega	CYP2D6	☑		☑				
Palonosetron	Aloxi	CYP2D6	☑						
Pantoprazole	Protonix	CYP2C19	☑			☑			
Paroxetine	Paxil, Brisdelle	CYP2D6	☑		☑		☑		☑
Pazopanib	Votrient	UGT1A1	☑					☑	
Pegloticase	Krystexxa	G6PD	☑			☑			
Perphenazine	Trilafon	CYP2D6	☑		☑				
Phenobarbital	Luminal	CYP2C19	☑		☑		☑		
Phenytoin	Dilantin	CYP2C9	☑		☑		☑		☑
Pimozide	Orap	CYP2D6	☑		☑				☑
Pioglitazone	Actos, Oseni	CYP2C8	☑						
Piroxicam	Feldene	CYP2C9	☑			☑	☑		
Pitavastatin	Livalo, Pravachol	SLCO1B1	☑	☑					
Pravastatin	Pravachol	SLCO1B1	☑	☑					
Primaquine		G6PD	☑						
Primidone	Mysoline	CYP2C19	☑		☑		☑		
Probenecid	Probalan	G6PD	☑			☑			
Proguanil	Malarone	CYP2C19	☑						
Propafenone	Rythmol	CYP2D6	☑	☑					
Propofol	Diprivan	CYP2B6	☑			☑			
Propranolol	Inderal	CYP2D6	☑	☑					
Protriptyline	Vivactil	CYP2D6	☑		☑	☑	☑		
Quinine	Qualaquin	G6PD	☑						
Rabeprazole	Aciphex	CYP2C19	☑			☑			
Ranolazine	Ranexa	CYP2D6	☑	☑		☑			
Rasburicase	Elitek	G6PD	☑					☑	
Repaglinide	Prandin, Prandimet	CYP2C8, SLCO1B1	☑						
Risperidone	Risperdal	CYP2D6, DRD2, HTR2C	☑		☑				
Rosiglitazone	Avandia	CYP2C8	☑						
Rosuvastatin	Crestor	SLCO1B1	☑	☑					

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Sertraline	Zoloft	CYP2C19	☑		☑		☑		☑
Simvastatin	Zocor	CYP3A4, SLCO1B1	☑	☑					☑
Sulfamethoxazole	Bactrim, Septra	G6PD	☑						
Sulfasalazine	Azulfidine, Sulfazine	G6PD, ABCG2	☑						
Tacrolimus	Prograf	CYP3A5	☑						☑
Tafenoquine	Krintafel, Arakoda	G6PD	☑						
Tamoxifen	Nolvadex, Soltamox	CYP2D6	☑					☑	
Tamsulosin	Flomax	CYP2D6	☑						
Tetrabenazine	Xenazine	CYP2D6	☑		☑				
Thioguanine	Tabloid	TPMT, NUDT15	☑					☑	☑
Thioridazine	Mellaril	CYP2D6	☑		☑				
Timolol	Timoptic	CYP2D6	☑	☑					
Tofacitinib	Xeljanz	CYP2C19	☑						
Tolbutamide	Orinase	CYP2C9	☑						
Tolterodine	Detrol	CYP2D6	☑						
Torseamide	Demadex	CYP2C9	☑	☑					
Tramadol	Ultram	CYP2D6	☑			☑	☑		☑
Trimipramine	Surmontil	CYP2D6, CYP2C19	☑		☑	☑	☑		☑
Valbenazine	Ingrezza	CYP2D6	☑		☑				
Venlafaxine	Effexor	CYP2D6	☑		☑		☑		
Voriconazole	Vfend	CYP2C19	☑						☑
Vortioxetine	Trintellix	CYP2D6	☑		☑		☑		
Warfarin	Coumadin	CYP2C, CYP2C9, CYP4F2, VKORC1	☑	☑					☑
Zonisamide	Zonegran	CYP2C19	☑		☑		☑		

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a Mount Sinai venture